

CLAIMS

I claim:

1. A bi-layer liner for lining concrete structures comprising:

a surfacer layer and a barrier layer, said barrier layer being disposed on said
5 surfacer layer.
2. The liner of claim 1, where said surfacer layer is composed of an epoxy.
3. The liner of claim 2, wherein the barrier layer is a foam.
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4. The liner of claim 3, wherein said foam is polyurea foam.
5. The liner of claim 1, where said barrier layer is composed of a polyurea and
isocyanate blend.
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6. The liner of claim 4, where said surfacer layer is composed of a foam.

7. The liner of claim 5, wherein said foam is a polyurethane foam.

8. The liner of claim 1, where said barrier layer has a cure rate of less than 60 seconds.

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9. The liner of claim 1, where said barrier layer is less than 80 mils in thickness.

10. A multi-layer liner for lining a concrete structure comprising:

(a) a first barrier layer;

10 (b) a surfacer layer disposed on said first barrier layer; and

(c) a second barrier layer disposed on said surfacer layer.

11. The liner of claim 8, where said surfacer layer is a foam.

15 12. The liner of claim 9, wherein said foam is a polyurethane foam.

13. The liner of claim 9, wherein said foam is a polyurea foam.

14. The liner of claim 8, where said first barrier layer and said second barrier layer are composed of the same material.

5 15. The liner of claim 10, where said first barrier layer and second barrier layer are composed of a polyurea and isocyanate blend.

16. The liner of claim 8, where said first barrier layer and said second barrier layer are less than 80 mils in thickness.

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17. The liner of claim 8, where said first barrier layer and said second barrier layer have cure rates of less than 60 seconds.

18. A method for lining concrete structures comprising:

- 15 (a) cleaning a surface of a concrete structure;
- (b) applying a foam liner material to said surface of said concrete structure.

19. The method of claim 14, wherein the foam liner material is a polyurea foam.

20. The method of claim 14, wherein the foam liner material is a polyurethane foam.

21. The method of claim 14, wherein step (a) further includes the steps of:

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(a) pressure washing the surface of the concrete structure; and

(b) heat drying the surface of the concrete structure.